KRAFT®
SYSTEMS INC.

Kraft Trackball User's Guide

For IBM® PC Computers and Compatibles

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Kraft Systems, Inc.
450 W. California Ave.
Vista, CA 92083
TEL: (619) 724-7146
FAX: (619) 941-1770
MCI: 320-1349 or KSI
TLX: 910-322-1471

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INTRODUCTION

Congratulations on having selected the Kraft Trackball, one of the finest pointing devices available today. We welcome you to our constantly growing family of Kraft Trackball users.

The Kraft Trackball is an opto-mechanical, ergonomically designed input device crafted with speed and simplicity in mind. Our goal is to provide you with an easier approach to data input and manipulation without compromising your current productivity levels.

Simply stated, the trackball allows you to use your computer with greater ease and efficiency, freeing time you are now wasting at the keyboard for more important things.

A. ABOUT THIS GUIDE

The *Kraft Trackball User's Guide* is separated into three sections:

- Section A contains important starter information.
- Section B details the Kraft Trackball installation.
- Section C explains how to usé the Kraft Trackball.

WHAT YOU SHOULD READ

First, finish reading the rest of the **ABOUT THIS GUIDE** section. Then read Section B, Chapters 1 through 4.

Next read Section C, Chapters 5 and 6. Although more experienced users may wish to skip most of Chapter 5, we strongly recommend all users read Chapter 6. You also may wish to peruse the appendixes as they contain important information regarding your Kraft Trackball.

UPDATED INFORMATION

As with all printed publications, the *Kraft Trackball User's Guide* may not contain the most recent information on its subject, the Kraft Trackball. In an effort to keep this instruction guide as current as possible, we have placed this information on the Kraft Trackball diskette.

To view this updated information on your screen:

- Change into the directory containing the Kraft Trackball software using the CD command (If necessary, refer to the DOS manual which came with your computer system).
- From the DOS prompt, type *READ UPDATE* and press ENTER.

PRODUCT SUPPORT

If you have a question about the Kraft Trackball which is not answered in this guide, call us at (619) 724-7146 and ask for the product support extension. When you call, please have the following items at hand:

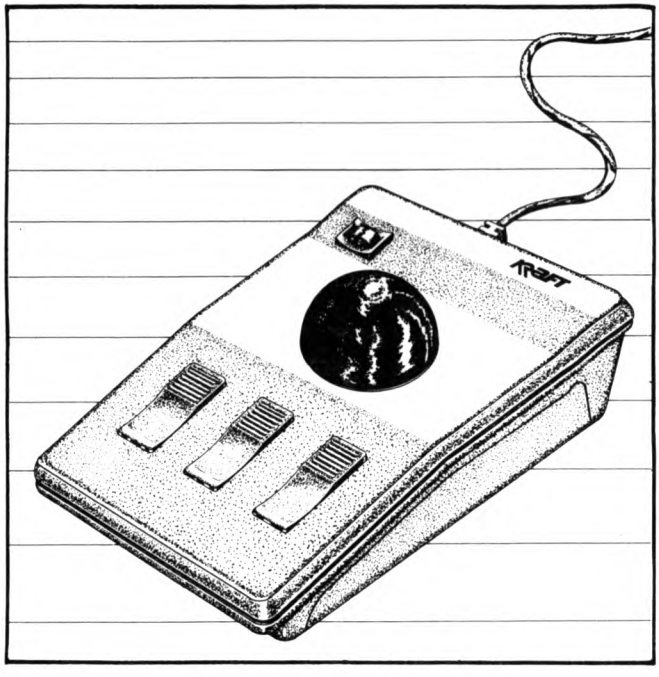
- The *Kraft Trackball User's Guide.*
- The make and model of your computer.
- The software version number (which can be obtained by typing *VERSION* and pressing ENTER while in the directory containing the Kraft Trackball software).
- A short description of your problem or question (Please note, troubleshooting is quicker and easier if you can be at your computer when you call for product support).

If you think you have a defective trackball, please follow the directions in the Product Repair/Replacement Plan appendix.

B. INSTALLING THE TRACKBALL

This section provides instructions for installing the Kraft Trackball hardware and software.

- Chapter 1, "What You Need," lists what you need to install and use the Kraft Trackball.
- Chapter 2, "Hardware Installation," describes how to attach the Kraft Trackball to your personal computer.
- Chapter 3, "Software Installation," explains how to move the Kraft Trackball software to a DOS diskette or hard disk.
- Chapter 4, "FastStarts," contains installation information for the most popular mouse-driven software applications.



WHAT YOU NEED

To install and use the Kraft Trackball, you need the following items:

- An IBM PC, XT, AT or 100% compatible personal computer system and display.
- A 25-pin or 9-pin serial port.
- DOS (Disk Operating System), version 2.0 or greater.
- Kraft Trackball software diskette.
- *Kraft Trackball User's Guide.*

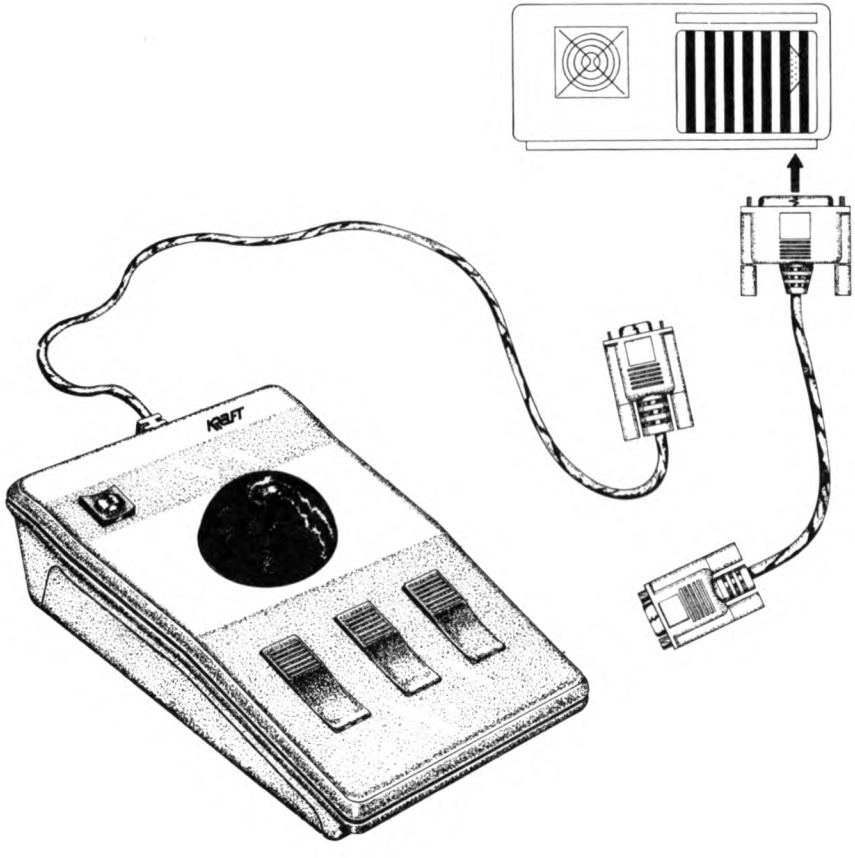
Although the installation is fairly straightforward, we recommend reading this ENTIRE section before attempting to connect the trackball hardware or install the trackball software.

HARDWARE INSTALLATION

TRACKBALL INSTALLATION

To connect your Kraft Trackball to your computer:

- Turn off your computer.
- Locate the 25-pin or 9-pin serial port connector on the back of the system unit.
- Insert the appropriate trackball connector into the serial port (you may need to use the supplied 9-pin to 25-pin adapter cable) and tighten the screws on the trackball conector.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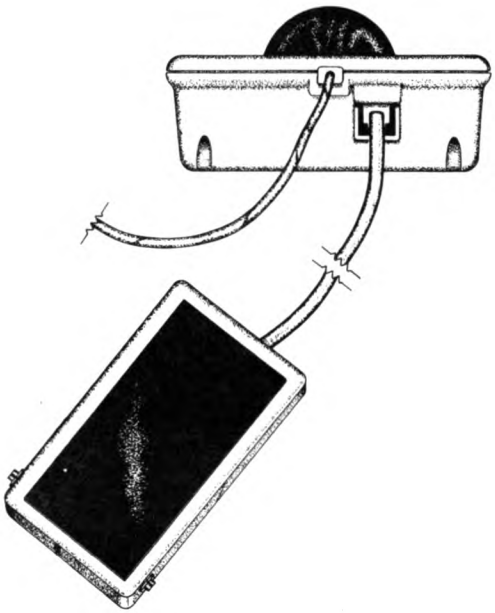
FOOTPEDAL INSTALLATION

To connect the optional footpedal to your Kraft Trackball:

- Locate the female connector on the back of the trackball (it will be to the right of the serial cable).
- Insert the footpedal connector into the female connector until you hear a click.



SOFTWARE INSTALLATION

MAKING COPIES OF THE TRACKBALL DISK

Before you begin, we recommend backing up the Kraft Trackball diskette. If a disk becomes damaged or if files are accidentally erased, you will still have the required trackball files on your backup diskette. To make copies of the trackball diskette, you will need a blank disk and a copy of DOS.

- Copy the Kraft Trackball diskette using DISKCOPY (If necessary, refer to the DOS manual which came with your computer system).
- Label the copy and store your original Kraft Trackball diskette in a safe place.

AUTOMATIC INSTALLATION

Running the Automatic Installation:

The Kraft Trackball diskette contains all of the software required to begin using the trackball immediately. Included with the diskette is an easy-to-use installation program which copies the Kraft Trackball driver — the software used to run the trackball— and the various trackball support files to either a hard disk or a floppy disk which contains the DOS system files.

To run the Automatic Installation:

- Insert your Kraft Trackball diskette into drive A.
- To change to drive A, type *A:* and press ENTER.
- From the drive A prompt, type *INSTALL* and press ENTER.
- Follow the on-screen instructions to install the Kraft Trackball software.

What the Automatic Installation Does:

When invoked, the automatic installation program first runs the short demonstration program described in Chapter 5—Using the Trackball. Since the second half of the installation program depends heavily on the Kraft Trackball for input, we strongly suggest verifying that the on-screen trackball cursor mimics the trackball's movement during the combination demonstration and test program.

The second half of the automatic installation program copies the trackball software from the Kraft Trackball diskette to the disk or directory you designate. If you specify that you want either the Kraft Trackball driver to load automatically or both the Kraft Trackball driver and the Speed Panel to load automatically, the installation program will modify your AUTOEXEC.BAT file appropriately. If the installation program cannot find an AUTOEXEC. BAT file, it will create one.

IMPORTANT NOTE: If the Kraft Trackball driver is not loaded automatically by the AUTOEXEC. BAT file, it must be loaded before the trackball will work. To load the trackball driver:

- Change into the directory containing the Kraft Trackball software using the CD command (If necessary, refer to the DOS manual which came with your computer system).
- From the DOS prompt, type KTRAK and press ENTER.

FASTSTARTS

The Kraft Trackball is compatible with the Microsoft Mouse—one of the most widely supported mice on the market today.

Unfortunately, because so many different types of mice and trackballs exist, some mouse-driven software applications must be told what type of input device you will be using. These applications make you search through their documentation for the instructions necessary to tell the mouse-driven application you will be using a Microsoft-compatible trackball. This is often a long and frustrating process.

However, we have included "FastStarts;" the Kraft solution to this nagging problem. Created with the beginning user in mind, each FastStart details step-by-step how to install and use your Kraft Trackball with one of the most popular mouse-driven software applications available today.

In an effort to keep this instruction guide as current as possible, we have placed this information on the Kraft Trackball diskette.

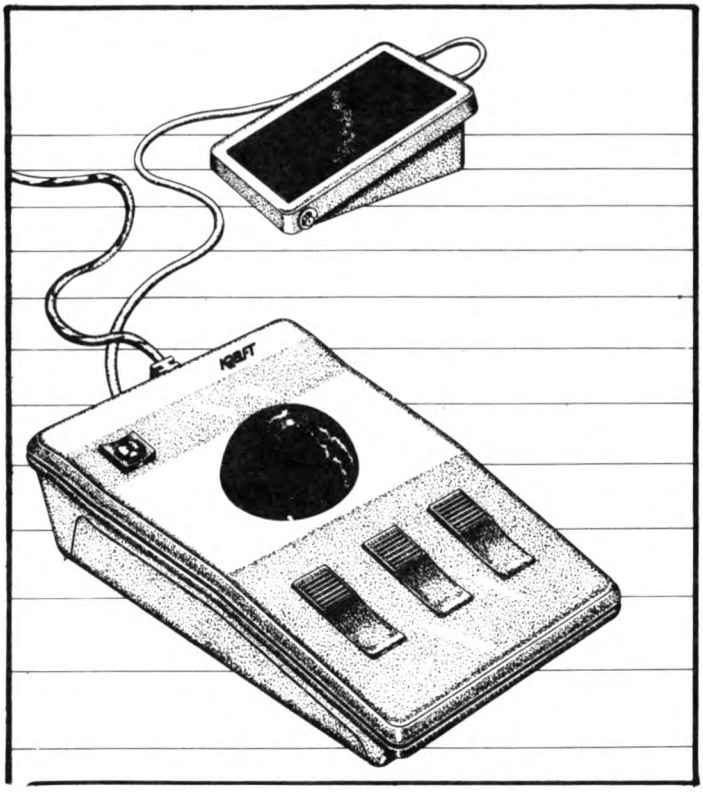
To view this information on your screen:

- Change into the directory containing the Kraft Trackball software using the CD command (If necessary, refer to the DOS manual which came with your computer system).
- From the DOS prompt, type *READ FASTARTS* and press ENTER.

C. USING THE TRACKBALL

This section provides instructions for using the Kraft Trackball.

- Chapter 5, "Using the Trackball," explains how to start a combination trackball demonstration and trackball test program. It also describes the Trackball's different features.
- Chapter 6, "The Speed Panel," describes how to adjust the sensitivity of the trackball and equivalent DPI rates.



USING THE TRACKBALL

To introduce the Kraft Trackball to novice users and provide a simple test area for more advanced users, we have included the Kraft Trackball Generic Test System. This program, when invoked, will indicate whether or not the Kraft Trackball is functioning properly.

In the rare case your Kraft Trackball does not function when the test section is displayed on your monitor, please contact us directly (for more information, see "Product Support" in Section A).

TRACKBALL FEATURES

FUNCTION BUTTONS

The Kraft Trackball has three function buttons: LEFT, MIDDLE, and RIGHT. The LEFT and RIGHT buttons on the Kraft Trackball have the same functions as the left and right buttons on a Microsoft Mouse. Please note, these functions will vary from software application to software application.

The MIDDLE button on the Kraft Trackball has the same function as the simultaneous use of the LEFT and RIGHT buttons (i.e. pressing the MIDDLE button is the same as pressing the LEFT and RIGHT buttons simultaneously).

DRAG BUTTON

The drag button is the blue button in the upper-left hand corner of trackball. It has the same function as the LEFT trackball button with one exception. When pressed once, it has the same effect as pressing the LEFT trackball button. When pressed a second time, it has the same effect as releasing the LEFT trackball button.

OPTIONAL FOOTPEDAL

The Kraft Trackball is available with an optional footpedal control. The footpedal has the same function as the LEFT trackball button. If you purchased the plain Kraft Trackball and would like to add the footpedal option, please refer to the Kraft Trackball Accessories appendix.

DEMONSTRATION/TEST SOFTWARE

To start the combination trackball demonstration and trackball test software which is included on the Kraft Trackball diskette:

- Change into the directory containing the Kraft Trackball test software using the CD command (If necessary, refer to the DOS manual which came with your computer system).
- From the DOS prompt, type *KMTEST* and press ENTER.
- Follow the instructions in the upper-right hand corner of the screen.

The demonstration and test can be exited by pressing the ESC key on your keyboard at any time.

THE SPEED PANEL

The Speed Panel utility provides a convenient way to adjust the trackball's sensitivity level to match individual preferences.

If the DEFAULTS option was selected during the automatic installation process, by default the Speed Panel will be loaded automatically when you turn your computer on. Otherwise, depending upon your installation selections, the Speed Panel may or may not be loaded automatically.

CALLING THE SPEED PANEL

The Speed Panel can be viewed any time after it has loaded by pressing the ALT key and the LEFT trackball button at the same time. The panel will then be displayed in a small window in the upper right hand corner of the screen.

USING THE SPEED PANEL TO CHANGE THE TRACKBALL'S SENSITIVITY LEVEL

The Speed Panel is based on a sensitivity scale ranging from 0 to 100 in increments of 5. As the sensitivity number approaches 100, the trackball's on-screen pointer will become more responsive to the trackball's movement.

The panel provides six separate options. To select an option, simply highlight it with the trackball cursor and press the LEFT trackball button.

The sensitivity number can be adjusted by either of the two arrow controls. The sensitivity number can also be quickly reset to its default value of 50 by the panel's diamond control.

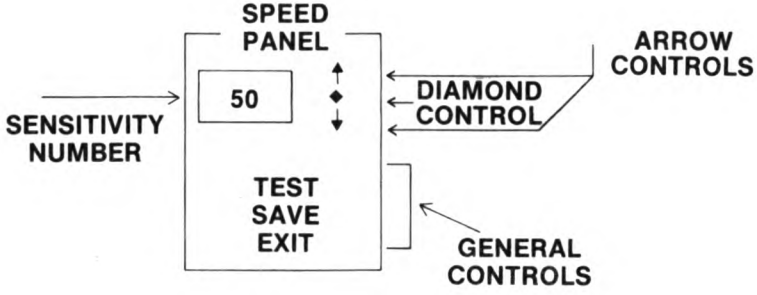
The TEST option will allow the trackball cursor to be moved anywhere on the video screen. Use this option to test the sensitivity number currently displayed in the Speed Panel window. When this option is selected, the three general control options will be replaced by an END TEST option. To exit the TEST option, simply highlight the END TEST option with the trackball cursor and press the LEFT trackball button.

The SAVE option will first set the trackball sensitivity to the sensitivity number currently displayed in the panel window and then exit to the underlying application.

The EXIT option will exit to the underlying application WITHOUT changing the trackball's sensitivity level. In other words, the trackball's sensitivity number will be the same as it was before the Speed Panel was called.

IMPORTANT NOTE: If the Kraft Speed Panel utility is not loaded automatically by the AUTOEXEC.BAT file, it must be loaded before it can be used. To load the Speed Panel:

- Change into the directory containing the Kraft Trackball software using the CD command (If necessary, refer to the DOS manual which came with your computer system).
- From the DOS prompt, type *KPANEL* and press ENTER.



EQUIVALENT DPI

The Speed Panel allows you to adjust the trackball sensitivity, also known as the software dots-per-inch (DPI) rate. Since the Speed Panel is based on a sensitivity scale and does not display actual DPI rates, we have provided a translation table below.

Sensitivity Scale	Equivalent DPI
0	10
5	18
10	28
15	39
20	53
25	69
30	87
35	109
40	135
45	165
50	200
55	241
60	290
65	347
70	414
75	493
80	586
85	695
90	823
95	973
100	1150

GLOSSARY

Chord	to press, release, or click more than one trackball button at the same time.
Click	to press and release a trackball button without moving the trackball.
Digitizer	another name for a trackball-type input device.
DOS	Disk Operating System. This is the program which manages memory, disk storage, and general operations.
Double Clicking	to quickly click a trackball button twice.
DPI	dots per inch.
Drag	to press a button and move the trackball at the same time.
Drag Button	the blue button on the trackball which has the same function as the LEFT trackball button. When pressed once, it has the same effect as pressing the LEFT trackball button. When pressed a second time, it has the same effect as releasing the LEFT trackball button.
FastStart	a step-by-step set of instructions for installing a popular mouse-driven application with the Kraft Trackball.

Footpedal	optional attachment for the trackball which duplicates the function of the LEFT trackball button.
KTRAK	Kraft Trackball software driver.
Opto Mechanical	a design which includes both optical and mechanical components. This design, which is considered one of the most reliable and trouble-free available today, is used in the Kraft Trackball.
Press	to push down and hold a trackball button.
Release	to remove pressure from a trackball button; letting the button up.
Serial Port	device by which the trackball communicates with the computer. Serial ports have two types of cable connectors: a 25-pin and a 9-pin.

WARRANTY

The Kraft Trackball hardware made by Kraft Systems is warranted to the original purchaser to be free from defects in materials and workmanship for a period of FIVE years from the date of purchase.

All warranty work will be done without charge during the FIVE year period. Damage due to abuse, improper use, shipping and handling, accidents, or as a result of service or modification by other than Kraft are excluded from this warranty. A service charge may be incurred for work done on these mistreated products.

Kraft's liability under this warranty is limited to the repair or replacement of the defect or defective part at our factory and DOES NOT include shipping expenses. You may request information on how to obtain service by contacting Kraft directly. Your sales receipt is your warranty validation. Dated proof-of-purchase (e.g. bill of sale, cancelled check, etc.) must be provided when requesting work to be performed. ALL RETURNS TO KRAFT FOR EITHER WARRANTY OR NON-WARRANTY REPAIRS MUST BE APPROVED BY KRAFT PRIOR TO SHIPMENT.

"NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. KRAFT SYSTEMS, INC. IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES." Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

RF STATEMENT

The Kraft Trackball hardware described in this manual generates and uses radio-frequency (RF) energy. If not installed and used in strict accordance with the instructions given in this manual, it may cause interference with radio and television reception.

The Kraft Trackball hardware has been tested and complies with the limits for a Class B computing device in accordance with specifications in Subpart J, Part 15 of the Federal Communications Commission (FCC) rules. Equipment meeting the FCC rules provides reasonable protection against RF interference in a residential installation site. There is, however, no guarantee that RF interference will not occur in a particular installation. If the Kraft Trackball does cause reception interference, one or more of the following actions may be taken:

- Reorient the receiver antenna away from the computer area.
- Relocate computing equipment to an isolated area.
- Install the computing equipment so that it is on a different branch circuit than the receiver.

If necessary, you should ask your dealer or an experienced radio/television technician for more suggestions. You may find helpful information in *How to Identify and Resolve Radio-TV Interface Problems* which is published by the FCC. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Request stock number 004-000-00345-4.

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